

Section H: Facility I.D.: Revision #: Date:

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FACILITY PERMIT TO OPERATE TESORO REFINING & MARKETING CO. LLC

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS The operator shall comply with the terms and conditions set forth below:

Additions are shown as **bold** and <u>underlined</u> and deletions are shown as strikeouts.

PROCESS 2		SYSTEM 2				
Coking and Residual Condition	ning	DCU Heaters				
		Process Co	nditions: P13.1			
		System Cor	System Conditions: S11.X			
Equipment	ID No.	Connected	RECLAIM	Emissions and	Conditions	
		То	Source	Requirements		
			Type/			
			Monitoring			
			Unit			
HEATER, H-100, PROCESS GAS,	D33	D76 D77	NOX:	CO : 2000 PPMV (5)	New:	
REFINERY GAS, 252 , <u>302.4</u>		C768	MAJOR	[RULE 407,4-2-1982];	A63.XX,	
MMBTU/HR WITH		S987	SOURCE**	PM : (9) [RULE 404 ,	A63.YY,	
			; SOX:	2-7-1986]; PM : 0.1	A99.X.	
A/N: 4 69243, <u>567439</u>			MAJOR	GRAINS/SCF	A195.XX,	
			SOURCE**	(5) [RULE 409, 8-7-	A195.YY,	
BURNER, REFINERY GAS, JOHN				1981]	D29.X	
ZINK, MODEL MA-20, 36						
BURNERS TOTAL, 8.4				NOX: 18.40 lbs/hr (2)	B61.1,	
MMBTU/HR EACH				[RULE 2005, 5-6-	D90.7,	
				<u>2005] ;</u>	D328.1,	
				SOX: 14.08 lbs/hr (2)	E54.9,	
				<u>IRULE 2005, 5-6-</u>	E54.17,	
				<u>2005</u>]	H23.3	
PROCESS 4		SYSTEM 7 FCCU FEED HYDRODESULFURIZATION UNIT NO. 4				
HYDROTREATING				DESULFURIZATION U	NIT NO. 4	
· ·			nditions: P13.1			
				, S11.2 , S13.2, S13.4, S15.	2, S15.3,	
		S15.10, S31				
Equipment	ID No.	Connected	RECLAIM	Emissions and	Conditions	
		То	Source	Requirements		
			Type/			
			Monitoring			
			Unit			
DRUM, DIESEL SURGE,V-3615,	DXXX1				<u>L341. X</u>	
DIAMETER: 4FT HEIGHT:						
8FT6IN						
A/N: 470277 <u>567619</u>						
DRYER, DIESEL SALT, V-3618,	DXXX2				<u>L341. X</u>	
DIAMETER: 13FT HEIGHT:						
<u>15FT6IN</u>						
A/N: 470277 567619						



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	1	1	1	1
REACTOR, GUARD, V-1740,	D1195			
HEIGHT: 21 FT 11 IN; DIAMETER:				
12 FT 7 IN				
A/N: 470277 567619				
REACTOR, V-1741, HEIGHT: 31 FT	D1326			
11 IN; DIAMETER: 12 FT 7 IN	D1320			
IT IIV, DIAWILTER. 12 IT / IIV				
A /NI. 470277 ECTC10				
A/N: 470277 567619	D160			
COLUMN, H2S STRIPPER, V-1755,	D160			
HEIGHT: 59 FT 6 IN; DIAMETER:				
10 FT 6 IN				
A/N: 470277 <u>567619</u>				
FRACTIONATOR, V-1757,	D168			
HEIGHT:70 FT 6 IN; DIAMETER: 8				
FT 6 IN				
A/N: 4 70277 567619				
COLUMN, STRIPPER, V-867,	D244			
DIESEL , <u>JET FUEL</u> , HEIGHT: 22				
FT 8 IN; DIAMETER: 3 FT 6 IN				
A/N: 470277 <u>567619</u>				
VESSEL, DRIER, V-1374, DIESEL	D3			
PRODUCT, HEIGHT: 36 FT 6 IN;				
DIAMETER: 9 FT				
A/N: 4 70277 567619		`		
ABSORBER, AMINE, V-1759,	D161			
HEIGHT: 49 FT 9 IN; DIAMETER: 2	2101			
FT				
I I				
A/N. 470277 EC7(10				
A/N: 470277 567619	D1/0			
ABSORBER, AMINE, V-1761,	D162			
HEIGHT: 58 FT; DIAMETER: 4 FT				
A/N: 470277 <u>567619</u>				
DRUM, SURGE, V-1751, FEED,	D163			
HEIGHT: 43 FT; DIAMETER: 13 FT				
6 IN				
A/N: 470277 <u>567619</u>				
A/11. 170277 <u>307019</u>				



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ABSORBER, AMINE/COLD HIGH	D164			
PRESSURE SEPARATOR, V-2231,				
HEIGHT: 42 FT ; DIAMETER: 4 FT				
7 IN				
/ 111				
A/N: 4 70277 567619				
DRUM, FLASH, RICH AMINE, V-	D1503			
2234, HEIGHT: 15 FT 6 IN;	21000			
DIAMETER: 5 FT 6 IN				
DIAMETER, 3 FT 0 IN				
A/N: 4 70277 567619				
VESSEL, SEPARATOR, LOW	D165			
PRESSURE, V-1753, HEIGHT: 30				
FT 6 IN; DIAMETER: 8 FT 10 IN				
I I OIII, DIMINILI LIK. OI I TOIII				
A/N: 470277 <u>567619</u>				
DRUM, V-1816, WWS REBOILER	D1334			
CONDENSATE				
CONDENSITE				
A/N: 470277 <u>567619</u>				
DRUM, V-1684, OFFGAS DCU	D1335			
CONDITIONER				
A/N: 470277 <u>567619</u>				
ACCUMULATOR, V-2161,	D106		·	
STRIPPER OVERHEAD	D100			
STRIPPER OVERHEAD				
A/N: 470277 <u>567619</u>				
ACCUMULATOR, V-1758,	D167		HAP: (10) [40CFR 63	
FRACTIONATOR OVERHEAD,			Subpart	
HEIGHT: 12 FT; DIAMETER: 4 FT		7	CC, #2, 6-20-2013]	
6 IN				
A/N: 470277 <u>567619</u>				
KNOCK OUT POT, V-1760, AMINE	D169			
ABSORBER FEED, HEIGHT: 10 FT;				
DIAMETER: 3 FT				
A/N: 470277 <u>567619</u>				
KNOCK OUT POT, V-1762, AMINE	D170	·		
ABSORBER OVERHEAD, HEIGHT:				
10FT; DIAMETER: 3 FT				
A/N: 4 70277 567619				
DIN. TIVEIT SUIVIT				



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DRUM, V-1765, WASH WATER,	D173				
LENGTH: 13 FT 6 IN; DIAMETER:					
5 FT 6 IN					
A/N: 470277 567619					
DRUM, FLASH, V-1766, SOUR	D174				
WATER, HEIGHT: 17 FT;					
DIAMETER: 5 FT 6 IN					
A/N: 4 70277 567619					
DRUM, V-1815, WWS	D1336				
CONDENSATE					
A/N: 4 70277 567619					
COMPRESSOR, C-134, RECYCLE	D176				H23.4
GAS, 3000 HP					
ĺ					
A/N: 470277 <u>567619</u>					
VESSEL, SEPARATOR, V-2049,	D1112				
HOT HIGH PRESSURE, HEIGHT:					
18 FT; DIAMETER: 7 FT 6 IN					
,					
A/N: 4 70277 567619					
DRUM, V-1814, WWS, HEIGHT: 30	D502				
FT 9 IN; DIAMETER: 12 FT					
, and the second					
A/N: 470277 <u>567619</u>					
COLUMN, STRIPPER, V-2350,	D188	T			
WASH WATER		`			
A/N: 4 70277 567619					
FILTER, FEED, V-1808/09, 2	D1566				
TOTAL, HEIGHT: 6 FT 9 IN;					
DIAMETER: 3 FT 6 IN					
A/N: 470277 <u>567619</u>					
FUGITIVE EMISSIONS,	D1449			HAP: (10) [40CFR 63	H23.16,
MISCELLANEOUS				Subpart	H23.39,
				CC, #5A, 6-23-2003]	L341.x
A/N: 470277 <u>567619</u>	<u> </u>			, ,	_
PROCESS 8	•	SYSTEM 1			-
HYDROCRACKING			HYDR	OCRACKING UNIT	
		Process Conditions: P13.1			
		System Conditions: <u>S11.X</u> , S13.4, S15.2, S15.3, S15.10, S31.1,			10, S31.1,
		S31.X	· <u></u>	, , , , , , ,	, ,



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	T	I			
Equipment	ID No.	Connected	RECLAIM	Emissions and	Conditions
		То	Source	Requirements	
			Type/		
			Monitoring		
DEL GEORGE VIOLET CONTRACTOR OF THE CONTRACTOR O	545		Unit		
REACTOR, V-993, HEIGHT: 58 FT	D371				
3 IN; DIAMETER: 10 FT					
A D. 402270 FREDRY					
A/N: 493279 575876	D372				
REACTOR, V-994, HEIGHT: 68 FT 10 IN; DIAMETER: 10 FT	D3/2				
10 IN, DIAMETER. 10 FT					
A/N: 4 93279 575876					
REACTOR, V-995, HEIGHT: 74 FT	D373				
10 IN; DIAMETER: 8 FT 6 IN	טוטע				
10 11, 511 11111111111111111111111111111					
A/N: 4 93279 575876					
DRUM, SURGE, V-996, HEIGHT:	D340				
28 FT; DIAMETER: 11 FT 6 IN					
,					
A/N: 493279 <u>575876</u>					
VESSEL, SEPARATOR, HIGH	D341				
PRESSURE, V-997, HEIGHT: 34 FT;					
DIAMETER: 10 FT					
A/N: 4 93279 <u>575876</u>					
VESSEL, SEPARATOR, LOW	D342		· ·		
PRESSURE, V-998, HEIGHT: 26 FT;		\ \			
DIAMETER: 7 FT 6 IN					
A /NJ. 402270 575976					
A/N: 493279 575876	D344				
FRACTIONATOR, V-1001, HEIGHT: 144 FT; DIAMETER: 15	D344				
FT					
A/N: 4 93279 57587 6					
VESSEL, STRIPPER, V-1002,	D345				
HEAVY NAPHTHA, HEIGHT: 33					
FT 6 IN; DIAMETER: 6 FT					
A/N: 4 93279 <u>575876</u>					
VESSEL, STRIPPER, V-1003,	D1259				
MEDIUM NAPHTHA, HEIGHT: 31					
FT 6 IN; DIAMETER: 6 FT					
A/N: 493279 <u>575876</u>					



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ACCUMULATOR, V-1004,	D1260			
FRACTIONATOR REFLUX,				
LENGTH: 22 FT 6 IN; DIAMETER:				
9 FT				
A/N: 4 93279 <u>575876</u>				
ACCUMULATOR, V-1005,	D346		HAP: (10) [40CFR 63	
FRACTIONATOR OVERHEAD,			Subpart	
LENGTH: 18 FT; DIAMETER: 7 FT			CC, #2, 6-20-2013]	
,			,	
A/N: 4 93279 <u>575876</u>				
ABSORBER, V-1006, LEAN OIL,	D374			
HEIGHT: 50 FT; DIAMETER: 3 FT				
A/N: 4 93279 575876				
COLUMN, DEPROPANIZER, V-	D347			
1007, HEIGHT: 106 FT;		_		
DIAMETER: 7 FT 6 IN				
A/N: 4 93279 575876				
DRUM, V-1008, DEPROPANIZER	D348			
REFLUX, LENGTH: 13 FT 6 IN;				
DIAMETER: 4 FT 6 IN				
BHMEIBK, TITOH				
A/N: 493279 575876				
COLUMN, DEBUTANIZER, V-	D349			
1009, HEIGHT: 93 FT 6 IN;	D342			
DIAMETER: 5 FT 6 IN				
DIAMETER. STITOIN		`		
A/N: 493279 575876				
	D350			
DRUM, V-1010, DEBUTANIZER	D330			
REFLUX, HEIGHT: 14 FT;				
DIAMETER: 5 FT				
A/N: 4 93279 575876				
DRUM, AMINE SCRUBBER	D1652			
	שומאל 1032			
FEED,V-2381, HEIGHT: 11 FT; DIAMETER: 4 FT 6 IN				
DIAMETER: 4 FT 6 IN				
A/N: 4 93279 575876				
SCRUBBER, V-1011, AMINE,	D351			
HEIGHT: 51 FT; DIAMETER: 5 FT 6	ונכע			
IN				
A /NI: 402270 57597 6				
A/N: 493279 <u>575876</u>				



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DRUM, FLASH, V-1012,	D375			
CONDENSATE, LENGTH: 10 FT;				
DIAMETER: 3 FT 6 IN				
A/N: 493279 575876				
DRUM, FRACTIONATOR	D352			
COMPRESSOR SUCTION, V-1695,	D332			
HEIGHT: 8 FT; DIAMETER: 5 FT				
HEIGHT. 8 FT, DIAMETER. 3 FT			· ·	
A /NI: 402270 575976				
A/N: 493279 575876	D256			
POT, V-1025, DEPROPANIZER	D376			
REBOILER CONDENSATE,				
LENGTH: 12 FT; DIAMETER: 1 FT				
5 IN				
A/N: 4 93279 <u>575876</u>				
POT, V-1026, DEBUTANIZER	D928			
REBOILER CONDENSATE,				
LENGTH: 12 FT; DIAMETER: 1 FT				
5 IN				
A/N: 493279 575876				
VESSEL, SEPARATOR, V-2036,	D355			
COKER GAS OIL, HEIGHT: 5 FT 2	2500			
IN; DIAMETER: 1 FT				
III, BIMWILTER, III				
A/N: 4 93279 <u>575876</u>				
VESSEL, SEPARATOR, V-1087,	D356			
FCC GAS OIL SOLIDS, HEIGHT: 5	D330	\ \		
FT 2 IN; DIAMETER: 1 FT				
A D. 102270 FREDRA				
A/N: 4 93279 <u>575876</u>				
VESSEL, COALESCER, V-1088 , <u>V-</u>	D357			
<u>3619</u> , FCC GAS OIL, LENGTH: 10				
FT; DIAMETER: 3 FT				
A/N: 4 93279 <u>575876</u>				
VESSEL, COALESCER, V-1089 , <u>V-</u>	D358			
3620, COKER GAS OIL, LENGTH:				
10 FT; DIAMETER: 3 FT	7			
A/N: 4 93279 <u>575876</u>				
VESSEL, EFFLUENT COALESCER,	D1265			
V-1090, LENGTH: 15 FT;	3.200			
DIAMETER: 5 FT				
DITINETEN, STI				
A/N: 4 93279 575876				
1911. 1/32// 5/100/0		<u> </u>		



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		-	 	
DRUM, INJECTION, V-1122,	D359			
DIMETHYL DISULFIDE, LENGTH:				
10 FT; DIAMETER: 3 FT				
A/N: 4 93279 575876				
COMPRESSOR, C-93, RECYCLE	D364		,	
GAS				
A/N: 4 93279 575876				
COMPRESSOR, FRACTIONATOR	D930			
NO.1 & 2, C-94/95, 2 TOTAL,	_,_,			
RECIPROCATING TYPE				
RECEIVED THE				
A/N: 4 93279 575876				
TOWER, DEA, V-1621, HEIGHT: 37	D932			
FT 6 IN; DIAMETER: 3 FT	2752			
TT VIII, DI MILLIDIC. J I I				
A/N: 4 93279 575876				
KNOCK OUT POT, V-1622,	D1266			
LIQUID, HEIGHT: 7 FT 3 IN;	D1200			
DIAMETER: 1 FT 2 IN				
DIAMETER. I FT 2 IN				
A/N: 4 93279 575876				
	D933			
MIST ELIMINATOR, V-1623,	D933			
HEIGHT: 9 FT; DIAMETER: 2 FT 6				
IN				
A D. 102270 FFF0F6				
A/N: 493279 <u>575876</u>	700			
VESSEL, SEPARATOR,	D934			
MEMBRANE, V-1624-38, 15				
TOTAL, HEIGHT: 12 FT 5 IN;				
DIAMETER: 8 FT				
A/N: 493279 <u>575876</u>				
COMPRESSOR, C-141,	D377			H23.4
RECIPROCATING TYPE				
A/N: 493279 <u>575876</u>				
DRUM, SECOND STAGE	D1340			
CHARGE, V-1965, LENGTH: 10 FT;	7			
DIAMETER: 3 FT				
A/N: 493279 <u>575876</u>				
KNOCK OUT POT, LIQUID, V-	D1341			
1995, LENGTH: 10 FT; DIAMETER:				
3 FT				
A/N: 493279 <u>575876</u>				



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		•	1			·
	967, STRIPPED	D1342				
WATER, LEN	NGTH: 10 FT;					
DIAMETER:	3 FT					
A/N: 4 93279 :	575876					
	GE, V-1966, WASH	D1530				
	GHT: 13 FT 6 IN;	D1330				
DIAMETER:						
DIAMETER.	3 F I O IIN					
A DI 402270						
A/N: 493279						
	72, FLASH, FOUL	D1531				
	NGTH: 10 FT;					
DIAMETER:	6 FT					
A/N: 493279	575876					
	OR, HYDROGEN, C-	D245				
	AL, RECIPROCATING	D2.13				
TYPE	AL, KLCH KOCATING					
1111						
A /NI. 402270	=====					
A/N: 493279		D 100				
COMPRESSO	DR, C-98	D102		· ·		
A/N: 493279						
COMPRESS	<u>OR, MAKEUP</u>	<u>DX1</u>				
HYDROGEN	BOOSTER, C-198,					
RECIPROC	ATING TYPE, 125					
BHP						
A/N 575876			`			
	OR, MAKEUP	DX2				
	BOOSTER, C-199,	<u>DAZ</u>				
	ATING TYPE, 125			1		
	ATING TIPE, 125					
<u>BHP</u>						
A DI FEFOR						
<u>A/N 575876</u>						
FUGITIVE E		D1454			HAP: (10) [40CFR 63	H23.16 ,
MISCELLAN	EOUS				Subpart	H23.39
					CC, #5A, 6-20-2013]	
A/N: 493279	<u>575876</u>					
	PROCESS 19		SYSTEM 7			
PETRO	LEUM MISCELLANE	OUS	REFINERY INTERCONNECTION			
			System Conditions: S11.X, S31.X			
Equipment		ID No.	Connected	RECLAIM	Emissions and	Conditions
T I			То	Source	Requirements	
				Type/	4	
				Monitoring		
				Unit		



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FUGITIVE EMISSIONS, MISCELLANEOUS, REFINERY INTERCONNECTION PIPING, METERING SYSTEM, AND MISCELLANEOUS FUGITIVE COMPONENTS A/N: 575874 DX3 HAP: (10) [40CFR 63] Subpart CC, #5A, 6-20-2013]	
INTERCONNECTION PIPING, METERING SYSTEM, AND MISCELLANEOUS FUGITIVE COMPONENTS	<u>X</u>
METERING SYSTEM, AND MISCELLANEOUS FUGITIVE COMPONENTS	
MISCELLANEOUS FUGITIVE COMPONENTS	
COMPONENTS	
A/N: 575874	
A/N: 575874	
PROCESS 21 SYSTEM 1	
AIR POLLUTION CONTROL PROCESS FLARE SYSTEM	
System Conditions: S11.X , S13.4, S18.2	
Equipment ID No. Connected RECLAIM Emissions and Condit	ions
To Source Requirements	
Type/	
Monitoring	
Unit	
FLARE, ELEVATED WITH STEAM C747 B61.X	
INJECTION, NO.2, Q-910, JOHN	
ZINK, MODEL STF-S-30, HEIGHT:	
250 FT; DIAMETER: 2 FT 6 IN	,
H23.38	
A/N: 562263 <u>575875</u> H23.42	
FLARE, ELEVATED WITH STEAM C748 B61.X	
INJECTION, NO.1, Q-913, JOHN	
ZINK, MODEL STF-S-30, HEIGHT:	
250 FT; DIAMETER: 2 FT 6 IN	
H23.38	,
A/N: 562263 575875 H23.42	2
KNOCK OUT POT, V-847, FLARE D752 D1648	
NO. 2, WITH INTERNAL LIQUID D1651	
SEAL, LENGTH: 24 FT;	
DIAMETER: 12 FT	
A/N: 562263 575875	
KNOCK OUT POT, V-848, FLARE D753 D1648	
NO. 1, WITH INTERNAL LIQUID D1651	
SEAL, LENGTH: 24 FT;	
DIAMETER: 12 FT	
A/N: 562263 <u>575875</u>	
KNOCK OUT POT, V-2369, CRU- D750	
HTU NO. 1, LENGTH: 16 FT;	
DIAMETER: 8 FT	
A/N: 562263 <u>575875</u>	



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KNOCK OUT POT, V-630, CRU-	D751			
HTU NO. 2, LENGTH: 19 FT;				
DIAMETER: 6 FT				
DI IVIL TER. VII				
A/N: 562263 <u>575875</u>				
KNOCK OUT POT, V-873, CRU NO.	D754			
3, LENGTH: 18 FT; DIAMETER: 9				
FT				
			· ·	
A/N: 562263 575875				
KNOCK OUT POT, V-934, DCU,	D755			
LENGTH: 25 FT; DIAMETER: 12	D733			
FT				
ГІ				
1.57				
A/N: 562263 <u>575875</u>				
KNOCK OUT POT, V-951, HGU	D756			
NO. 1, LENGTH: 40 FT;				
DIAMETER: 10 FT				
A/N: 562263 <u>575875</u>				
KNOCK OUT POT, V-1018, HCU,	D757			
LENGTH: 29 FT; DIAMETER: 14				
FT 6 IN				
110 IIV				
A DI 5 (22 (2) 555055				
A/N: 562263 <u>575875</u>	55.50			
KNOCK OUT POT, V-1431,	D758			
ALKYLATION UNIT, LENGTH: 35		· ·		
FT; DIAMETER: 11 FT				
A/N: 562263 <u>575875</u>				
KNOCK OUT POT, V-1472, HTU	D759			
NO. 3, LENGTH: 23 FT 8 IN;		1		
DIAMETER: 9 FT 3 IN				
DIMINILI DIN. 711 3 IIV				
A/N: 562262 E7E97E				
A/N: 562263 575875	D172			
KNOCK OUT POT, V-1764, HTU-4,	D172			
HEIGHT: 36 FT; DIAMETER: 13 FT				
A/N: 562263 <u>575875</u>				
FUGITIVE EMISSIONS,	D1419		HAP: (10) [40CFR 63	H23.5
MISCELLANEOUS			Subpart CC, #5A, 6-	
			20-2013]	
A/N: 562263 <u>575875</u>			20.2010]	
A/IN. 302203 <u>3/30/3</u>		1		ĺ

P13.1 All devices under this process are subject to the applicable requirements of the following rules or regulations:



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Contaminant	Rule	Rule/Subpart
Benzene	40CFR61, SUBPART	FF

[40CFR 61 Subpart FF, 12-4-2003]

[Processes subject to this condition: 2, 4, 8]

S11.X The operator shall comply with all applicable mitigation measures stipulated in the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" document which is part of the AQMD Certified Final Environmental Impact Report dated "DATE TBD" or this facility.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the applicable measures stipulated in the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" document.

This condition shall only apply to equipment listed in Section H of this facility permit.

[CA PRC CEQA, 11-23-1970]

[Systems subject to this condition: Process 2, System 2, Process 4, System 7, Process 8, System 1; Process 19, System 7; Process 21, System 1]

S11.2 The following conditions shall apply to all refinery operation and related devices from this system:

The operator shall comply with all applicable mitigation measures stipulated in the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" document which is part of the AQMD Certified Final Environmental Impact Report dated 15-oct 2001 for this facility

This condition shall only apply to equipment listed in Section H of this permit

FCA PRC CEQA, 11-23-19701

[Systems subject to this condition: Process 4, System 7]



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S13. 2 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	QQQ

[40CFR60, SUBPART QQQ, 10-17-200]

[Systems subject to this condition: Process 4, System 7]

All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpa	rt
VOC	District Rule	1123	
[F 1122 12 7 1000]			

[RULE 1123, 12-7-1990]

[Systems subject to this condition: Process 8, System 1; Process 4, System 7; Process 21, System 1]

S15.2 The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to the refinery flares (process 21, system 1) or flare gas recovery system (process 21, system 4) which may also include DCU Blowdown Compressor C-137 (device D68) except Devices IDs D898, D20, D910, D1268, D1269, D1280, D93, D94, D96, D1283, D1284, D1288, D1292, D219, D226, D1212, D275, D1256, D375, D928, D1267 & D916 that vent to the atmosphere.

This process/system shall not be operated unless the blowdown flare system is in full use and has a valid permit to receive vent gases from this system.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996]

[Systems subject to this condition: Process 4, System 7; Process 8, System 1]

S15.3 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases under normal operating conditions shall be directed to a vapor recovery system (process 21, system 3) consisting of compressors, D641, D642, D643, and/or



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D644, which can be operated independently to maintain a system vacuum that efficiently collects all vented gases or the flare gas recovery system (process 21, system 4).

This process/system shall not be operated unless the vapor recovery system (process 21, system 3) or flare gas recovery system (process 21, system 4) is in full use and has a valid permit to receive vent gases from this system.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996]

[Systems subject to this condition: Process 4, System 7; Process 8, System 1]

S15.10 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases under normal operating conditions shall be directed to the amine absorber(s) located in this system.

This process/system shall not be operated unless the absorber(s) is in full use and has a valid permit to receive vent gases from this system.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996]

[Systems subject to this condition: Process 4, System 7; 8, System 1]

All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

Crude Distillation Unit (Process: 1, System: 1 & 2)

Delayed Coking Unit (DCU) (Process: 2, System: 1, 3, 6 & 10)

Fluid Catalytic Cracking Unit (FCCU) (Process: 3, System: 1, 2, 4 & 5)

Hydrotreating Units (Process: 4, System: 1, 3, 5, 7 & 9) Catalytic Reforming Units (Process: 5, System: 1, 3 & 5)

Hydrogen Generation Units (Process: 6, System: 1 & 3)

Hydrocracking Unit (Process: 8, System: 1)

Alkylation Unit (Process: 9, System: 1, 2 & 3)

Fuel Gas Treating System (Process: 12, System: 8)

Loading and Unloading (Process: 14, System: 2 & 3)

Pressurized Storage Tanks (Process: 15, System: 3)

Fuel Gas Mix System (Process: 19, System: 3)



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Refinery Interconnection (Process: 19, System 7)

Isomerization Unit (Process: 23, System: 1)

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Systems subject to this condition: Process 21, System 1]

S31.1 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 347559, 347560, 347564, 366048, 366083, 376616, 376622, 376623, 376624, 376625, 376627, 376628, 381228, 435139, 457927, 501287 & 501288:

All open-ended valves shall be equipped with cap, blind flange, plug, or a second valve.

All pressure relief valves shall be connected to closed vent system or equipped with rupture disc.

All sampling connections shall be closed-purge, closed-loop, or closed-vent system.

All new valves in VOC service shall be of leakless type, except those specifically exempted by Rule 1173 or approved by the District in the following applications: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where failures could pose safety hazards (e.g. drain valves with valve stems in horizontal position), retrofits with space limitations, and valves not commercially available.

If 98.0 percent or greater of the new valve and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppm for two consecutive months, then the operator may revert to a quarterly inspection program with the approval of the executive officer. This condition does not apply to leakless valves.

The operator shall keep records of the monthly inspection (and quarterly where applicable), subsequent repair, and re-inspection, in a manner approved by the District.

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on actual components installed and removed from service. The operator shall also submit a complete, as built, piping and instrumentation diagram(s) and copies of requisition data sheets for all non-leakless type valves with a listing of tag numbers and reasons why leakless valves were not used.



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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS The operator shall comply with the terms and conditions set forth below:

All new components in VOC service as defined in Rule 1173, except valves and flanges, shall be inspected quarterly using EPA reference Method 21. All new valves and flanges in VOC service except those specifically exempted by Rule 1173 shall be inspected monthly using EPA Method 21.

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation.

Components shall be defined as any valve, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempt by Rule 1173.

All new components in VOC service, a leak greater than 500 ppm but less than 1,000 ppm measured as methane above background as measured using EPA Method 21, shall be repaired within 14 days of detection.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Systems subject to this condition: Process 4, System 7; Process 8, System 1]

S31.X The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 575874, 575876:

All new valves in VOC service shall be bellows seal valves except: (1) those specifically exempted by Rule 1173; (2) those in heavy liquid service as defined in Rule 1173; or (3) those approved by the District in the following applications: control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where valve failure could pose safety hazard (e.g., drain valves with valve stems in horizontal position), retrofits/special applications with space limitations, and valves not commercially available.

All new components in VOC service as defined by Rule 1173, except those specifically exempted by Rule 1173, shall be distinctly identified from other components through their tag numbers (e.g., numbers ending in the letter "N2"), and shall be noted in the records.

All new open-ended lines shall be equipped with cap, blind flange, plug, or a second valve.



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All new pressure relief valves shall be connected to closed vent system or equipped with a rupture disc.

All new pumps shall utilize double seals and be connected to a closed vent system.

All new compressors shall be equipped with a seal system with a higher pressure barrier fluid.

All new process drains shall be equipped with water seal, or a closed vent system and control device complying with the requirements of 40CFR60 Subpart QQQ Section 60.692-5.

All new valves and flanges in VOC service as defined by Rule 1173, except those specifically exempted by the rule, shall be inspected monthly using EPA Method 21.

If 98.0 percent or greater of the new non-bellows seal valves and the new flanges population inspected (as an aggregate) is found to leak gaseous or liquid volatile organic compounds at a rate less than 200 ppmv for two consecutive months, then the operator may change leak inspection interval for these components from monthly to quarterly with prior approval of the Executive Officer. The operator shall revert back to monthly inspection interval if less than 98.0 percent of these components is found to leak gaseous or liquid volatile organic compounds at a rate less than 200 ppmv.

The operator shall keep records of the monthly inspection, subsequent repair, and re-inspection, in a manner approved by the District. Records shall be kept and maintained for at least five years, and shall be made available to the Executive Officer upon request.

For all new components in VOC service as defined by Rule 1173, a leak greater than 200 ppm but less than 1,000 ppm, measured as methane above background using EPA Method 21, shall be repaired within 14 days of detection. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.

The operator shall provide to the District, prior to initial startup, a list of all non-leakless type valves that were installed. The list shall include the tag numbers for the valves and reasons why leakless valves were not used. The operator shall also submit a complete as-built piping and instrumentation



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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS The operator shall comply with the terms and conditions set forth below:

<u>diagram(s)</u> and copies of requisition data sheets or field inspection surveys for all non-leakless type valves.

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on actual components installed and removed from service.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

Systems subject to this condition: Process 4, System 7; Process 8, System 1; Process 19, System 7

A63.XX The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
<u>PM10</u>	Less than or equal to 37 lbs in any one day
<u>PM10</u>	Less than or equal 0.00510 Lb/MMBtu
ROG	Less than or equal to 35 lbs in any one day
ROG	Less than or equal to 0.00482Lb/MMBtu
<u>CO</u>	Less than or equal to 174 lbs in any one day
<u>CO</u>	Less than or equal to 0.02397Lb/MMBtu

The operator shall calculate the daily emissions and the emission rate in lb/MMBtu for ROG, PM10 and CO using the results of the most recent source test.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002,

[Devices subject to this condition: D33]

A63.YY The operator shall limit emissions from this equipment as follows:

CONTAMINANT EMISSIONS LIMIT

NOx SOx Less than or equal to 181.44 lbs/day Less than or equal to 250 lbs/day

The operator shall calculate the daily emissions for NOx and SOx using the the SCAQMD certified CEMS.

[CA PRC CEQA, 09-15-2015]

[Devices subject to this condition : D33]



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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS The operator shall comply with the terms and conditions set forth below:

A99.X

The 18.40 lb/hr NOX emission limit(s) shall not apply during the heater startup, shutdowns or refractory dryout periods. For the purpose of this exception, each startup event shall not exceed 48 hours, not including refractory dryout period up to 48 additional hours and each shutown event shall not exceed 24 hours.

Written records of start-ups, refractory dryouts and shutdowns shall be maintained and made available upon request from the Executive Officer or his designee.

[RULE 2005, 5-6-2005, RULE 2005, 6-3-2011]

[Devices subject to this condition: D33]

A195,XX The 18.40 lbs/hr NOX emission limit(s) is averaged over rolling 24-hours.

This NOx hourly emission limit shall be calculated based on the measured NOx emissions using a certified RECLAIM CEMS.

RULE 2005, 5-6-2005, RULE 2005, 6-3-2011

[Devices subject to this condition: D33]

A195.YY The 14.08 lbs/hr SOX emission limit(s) is averaged over rolling 24-hours.

This SOx hourly emission limit shall be calculated based on the measured SOx emissions using a certified RECLAIM CEMS.

RULE 2005, 5-6-2005, RULE 2005, 6-3-2011

[Devices subject to this condition: D33]

B61.1 The operator shall not use fuel gas containing the following specified compounds:

Compound		ppm by	<u>volume</u>
H2S greater than	i	160	

The H2S concentration shall be based on a rolling 3-hour average.

[40CFR 60 Subpart J, 6-24-2008; CONSENT DECREE, 3-21-2001]]

[Devices subject to this condition: D33]

B61.X The operator shall not use fuel gas containing the following specified compounds:

COMPOUND pp:	m by volume
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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS The operator shall comply with the terms and conditions set forth below:

H2S greater than 162

The 162 ppmv limit is averaged over three hours, excluding any vent gas resulting from an emergency malfunction, process upset or relief valve leakage

[40CFR 60 Subpart Ja, 6-24-2008]

Devices subject to this condition: C747, C748

D12.4 The operator shall install and maintain a(n) thermocouple or any other equivalent device to accurately indicate the presence of a flame at the pilot light.

The operator shall also install and maintain a device to continuously record the parameter being monitored.

[RULE 1118, 11-4-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR 60 Subpart A, 4-4-2014]

[Devices subject to this condition: C747, C748]

<u>D29.XX</u> The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	Approved District Method	<u>District –approved</u> <u>averaging time</u>	Outlet of the SCR
SOX emissions	Approved District Method	<u>District –approved</u> <u>averaging time</u>	Outlet of the SCR
PM10	Approved District Method	District –approved averaging time	Outlet of the SCR
ROG	Approved District Method	<u>District –approved</u> averaging time	Outlet of the SCR
CO	District method 100.1	District –approved averaging time	Outlet of the SCR

The test shall be conducted after AQMD approval of the source test protocol, but no later than 180 days after initial start-up. The AQMD shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted to determine the oxygen levels in the exhaust. In addition, the test shall record the fuel flow rate (CFH) and the flue gas flowrate.



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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS The operator shall comply with the terms and conditions set forth below:

The test shall be conducted when this equipment is operating at 80 percent or greater of the maximum design capacity.

For NOx and SOx, source test data may be substituted with CEMS data from a RECLAIM certified CEMS.

The test shall be conducted to demonstrate compliance with the emission limits specified in condition A63.XX and A63.YY for this equipment.

The test shall be conducted annually after the initial source test.

[RULE 1303(b)(2)-Offset, 5-10- 1996; RULE 1303(b)(2)-Offset, 12-6-2002, RULE 2005, 5-6-2005]

[Devices subject to this condition: D33]

D90.7 The operator shall continuously monitor the H2S concentration in the fuel gases before being burned in this device according to the following specifications:

The operator may monitor the H2S concentration at a single location for fuel combustion devices, if monitoring at this location accurately represents the concentration of H2S in the fuel gas being burned in this device.

The operator shall use Gas Chromatograph meeting the requirements of 40CFR60 Subpart J to monitor the parameter.

The operator shall also install and maintain a device to continuously record the parameter being monitored.

[40CFR 60 Subpart J, 6-24-2008]

[Devices subject to this condition: D33]

D323.2 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a bi-weekly basis, at least, unless the equipment did not operate during the entire bi-weekly period. The routine bi-weekly inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard



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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS The operator shall comply with the terms and conditions set forth below:

procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]

[Devices subject to this condition: C747, C748]

D328.1

The operator shall determine compliance with the CO emission limit(s) either: (a) conducting a source test at least once every five years using AQMD method 100.1 or 10.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with CO emission limit(s). The operator shall comply with all general testing, reporting, and recordkeeping requirements in sections E and K of this permit.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]

[Devices subject to this condition: D33]



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FACILITY PERMIT TO OPERATE TESORO REFINING & MARKETING CO. LLC

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS The operator shall comply with the terms and conditions set forth below:

E54.9 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C768 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: The heater is in either start-up or shutdown mode. Requirement number 2: The SCR inlet temperature is less than 550 Deg F.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition: D33]

E54.17 The operator is not required to vent this equipment to the following equipment if all of the requirements listed below are met:

Device ID: C768 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: Bypass is allowed for activities directly related to repair, maintenance, and the resetting of the damper following a stack damper trip

Requirement number 2: The CEMS shall be fully operational and certified to the levels of emissions with and without bypass

Requirement number 3: Total periods of bypass do not exceed 240 hours per year

Requirement number 4: The operator shall submit an annual report to the District with a summary of the number of hours the SCR was bypassed, and the description of the reason for each bypass. The annual report is due March 1 of each year

[RULE 2012, 5-6-2005]

[Devices subject to this condition: D33]

E193.1 The operator shall operate and maintain this equipment according to the following specifications:

The operator shall comply with all applicable requirements specified in Section 60.18 of the 40 CFR60 Subpart A

[40CFR 60 Subpart A, 4-4-2014]

[Devices subject to this condition: C747, C748]



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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS The operator shall comply with the terms and conditions set forth below:

H23.3 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	J

[40CFR 60 Subpart J, 6-24-2008]

[Devices subject to this condition: D33]

H23.4 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	GGG

[40 CFR 60 Subpart GGG, 6-2-2008]

[Devices subject to this condition: D176, D377]

H23.5 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart	
VOC	District Rule	1173	

[RULE 1173, 2-6-2009]

[Devices subject to this condition: D1419]

H23.16 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173
VOC	40CFR60, SUBPART	GGG

[RULE 1173, 2-6-2009; 40 CFR 60 Subpart GGG, 6-2-2008]

[Devices subject to this condition: D1449, D1454]



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H23.38 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
SOx	District Rule	1118

[RULE 1118, 11-4-2005]

[Devices subject to this condition: C747, C748]

H23.39 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart	
VOC	District Rule	1173	
ROG	40CFR60, SUBPART	GGGa	

[RULE 1173, 2-6-2009; 40CFR 60 Subpart GGGa, 6-2-2008]

[Devices subject to this condition: **D1449**, **D1454**, **DX3**]

H23.42 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
H2S	40CFR60 SUBPART	Ia

[40CFR 60SubpartJa, 9-12-2012]

[Devices subject to this condition: C747, C748]

<u>L341.X</u> <u>Within 90 days after startup of this equipment the following devices shall be removed from operation:</u>

(D96) FCCU Regenerator

(D112) CO Boiler

(D92) H-2 Steam Superheater

(D89) H-3 Fresh Feed Heater

(D90) H-4 Hot Oil Loop Reboiler

(D91) H-5 Fresh Feed Heater

(D1664) B-1 Startup Heater



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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS The operator shall comply with the terms and conditions set forth below:

[[RULE 1313-, 12-7-1995]

[Devices subject to this condition: DXXX1, DXXX2, D1449, DX3]

